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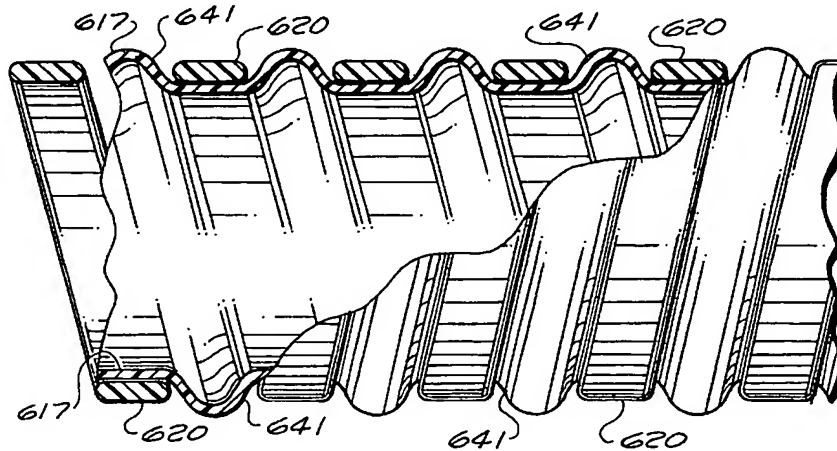
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- (71) Applicant (for all designated States except US): **PRECISION VASCULAR SYSTEMS, INC.** [US/US]; 2405 W. Orton Circle, West Valley City, UT 84119 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **DAVIS, Clark, C.** [US/US]; 4564 Wallace Lane, Holladay, UT 84117 (US). **OLSON, Kevin, T.** [US/US]; 773 East Jeppson Avenue, Salt Lake City, UT 84106 (US). **FOX, DeWayne, C.** [US/US]; 9326 South 4030 West, South Jordan, UT 84095 (US).
- (74) Agent: **WATTS, Allan, W.**; Snell & Wilmer LLP, One Arizona Center, 400 East Van Buren Street, Phoenix, AZ 85004-2202 (US).
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(54) Title: MEDICAL DEVICE WITH COLLAPSE-RESISTANT LINER AND METHOD OF MAKING SAME



(57) Abstract: A medical device for guiding through anatomy, such as a catheter or guidewire, with a tubular body that has been slotted to enhance bending flexibility, and a polymer liner with an anti-collapsing structure, and a method of making a medical device with a kink-resistant corrugated tubular member and an anti-collapsing structure. Anti collapsing structures may be helical or annular, and may be wire, such as ribbon wire, grooves in the liner, corrugations, or a braid. Liners may be bonded to the anti-collapsing structure, or may have two layers, with the anti-collapsing structure between the layers. Corrugations may be formed between sections of the anti-collapsing structure with heat, pressure, stretching, compression, a mold, or a combination thereof, and may extend inward or outward. Shape or wall thickness may vary along the length to provide a varying bending stiffness. Slots may be formed in groups of two, three, or more, and adjacent groups may be rotated about the axis forming a helical pattern.